

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P148399

Luminaire Tested: **TLM-E05-LED-E1-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148399
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E05-LED-E1-5XQ-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

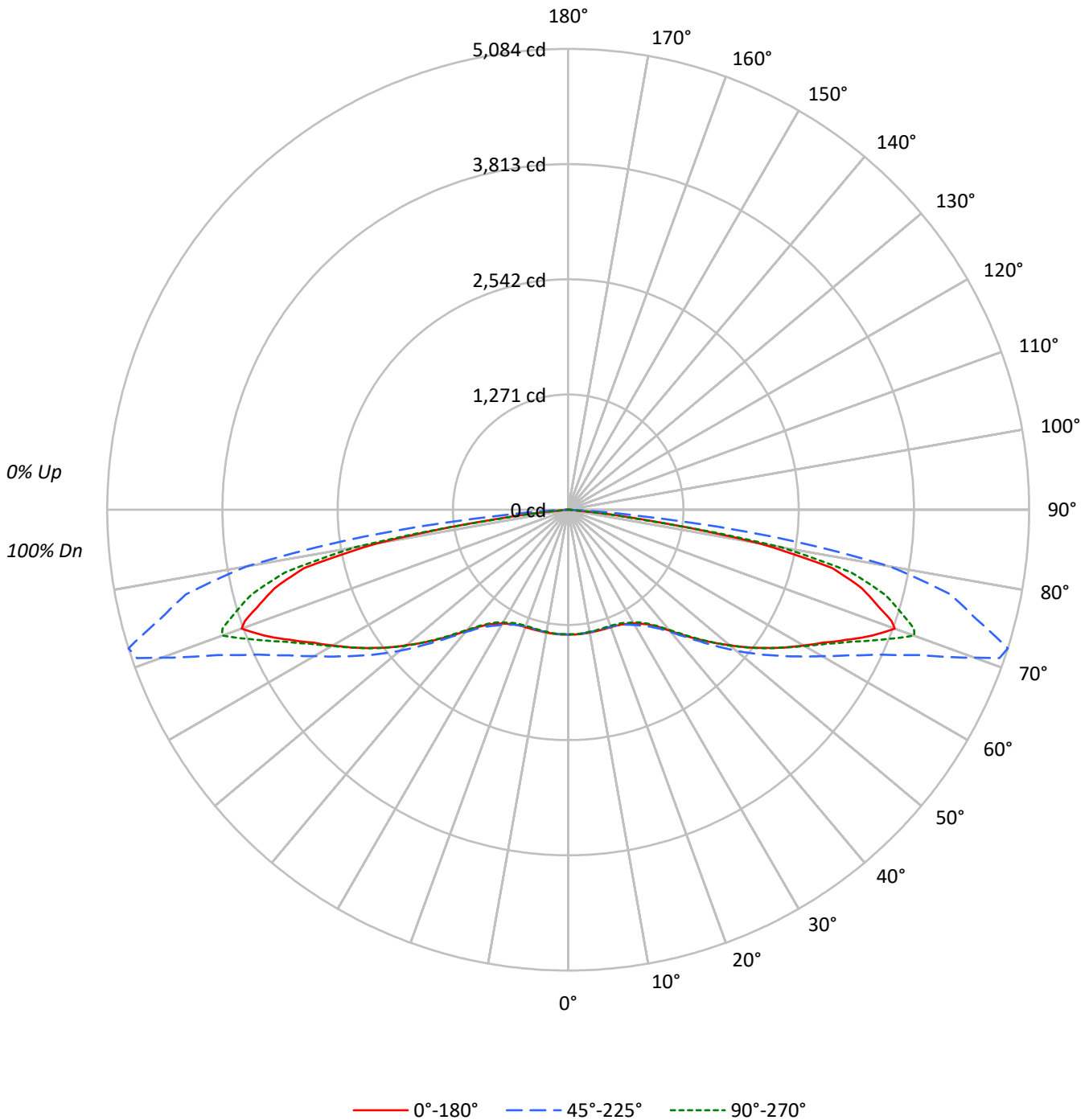
Lumens per Lamp: N/A
Luminaire Lumens: 14524.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 2.11 / 2.1 / 2.7
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	102	95	88	82	99	92	86	80	88	82	78	83	79	75	79	76	73	70
2	88	76	66	57	85	74	64	56	70	62	55	66	59	53	63	57	52	49
3	77	62	51	42	74	60	50	41	57	48	40	54	46	39	51	44	38	36
4	69	53	41	32	66	51	40	31	48	38	31	46	37	30	43	36	30	27
5	62	45	34	25	60	44	33	25	42	32	24	39	31	24	37	30	24	21
6	57	40	29	20	54	39	28	20	37	27	20	35	26	20	33	25	19	17
7	52	35	25	17	50	34	24	17	33	24	17	31	23	17	30	22	16	14
8	48	32	22	15	46	31	21	15	30	21	14	28	20	14	27	20	14	12
9	45	29	19	13	43	28	19	13	27	18	12	26	18	12	25	17	12	10
10	42	26	17	11	40	26	17	11	25	17	11	24	16	11	23	16	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17846	17846	17846
5°	17944	17914	17905
10°	18112	18041	18012
15°	18476	18364	18312
20°	19034	18954	18823
25°	19984	20040	19745
30°	21702	21980	21496
35°	24462	24932	24305
40°	29494	29836	29250
45°	36992	37642	36853
50°	46912	48833	47021
55°	60145	63414	60265
60°	77702	83813	77998
65°	104192	115985	105708
70°	145338	181079	153998
75°	168148	233267	181226
80°	160016	268695	177522
85°	13035	108950	8496



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	0.9
10°-20°	388.0	2.7
20°-30°	649.6	4.5
30°-40°	990.4	6.8
40°-50°	1581.4	10.9
50°-60°	2431.6	16.7
60°-70°	3540.4	24.4
70°-80°	3988.2	27.5
80°-90°	823.3	5.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1168.7	8.0
0°-40°	2159.1	14.9
0°-60°	6172.1	42.5
0°-90°	14524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14524.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1378	1377	1376	1375	1375	131
15°	1376	1372	1368	1362	1364	390
25°	1397	1399	1400	1387	1380	651
35°	1545	1556	1575	1547	1535	987
45°	2017	2016	2052	2020	2009	1574
55°	2660	2668	2805	2680	2665	2393
65°	3395	3409	3780	3458	3445	3384
75°	3356	3569	4655	3863	3617	3418
85°	88	231	732	185	57	545
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1376.1	1376.1	1376.1	1376.1	1376.1	1376.1	1376.1	1376.1	1376.1	1376.1	1376.1
2.5°	1378.4	1379.2	1378.8	1378.0	1378.4	1378.0	1377.2	1376.9	1374.2	1375.7	1378.0
5°	1378.4	1377.6	1377.2	1376.9	1376.9	1378.0	1376.9	1375.8	1375.4	1376.1	1375.0
7.5°	1377.6	1376.1	1375.4	1375.0	1375.4	1375.8	1374.6	1373.0	1374.2	1373.0	1371.6
10°	1375.4	1374.2	1374.6	1373.0	1373.4	1373.0	1371.5	1370.4	1371.1	1370.0	1368.2
12.5°	1376.1	1374.2	1373.8	1373.0	1372.7	1372.3	1370.4	1368.5	1368.9	1368.1	1366.2
15°	1376.1	1375.0	1374.6	1373.0	1372.6	1371.9	1369.6	1368.9	1368.9	1367.8	1365.4
17.5°	1376.9	1376.1	1376.1	1374.2	1373.4	1373.1	1370.4	1369.3	1370.4	1368.1	1366.6
20°	1379.2	1378.4	1378.8	1377.6	1376.1	1376.1	1374.2	1373.4	1373.8	1373.4	1369.3
22.5°	1383.7	1383.7	1384.5	1384.1	1383.7	1384.1	1382.6	1382.6	1383.0	1382.9	1379.5
25°	1396.6	1396.3	1397.1	1397.0	1397.4	1400.1	1398.9	1398.6	1400.5	1400.5	1397.0
27.5°	1421.0	1420.2	1421.1	1421.8	1423.7	1427.1	1426.3	1427.5	1430.5	1429.8	1426.7
30°	1449.2	1448.4	1450.3	1452.6	1454.1	1459.4	1457.2	1462.8	1465.6	1467.8	1465.6
32.5°	1490.3	1490.3	1493.7	1495.2	1498.7	1504.0	1504.8	1509.3	1512.8	1516.5	1513.9
35°	1545.1	1544.4	1547.0	1549.7	1553.9	1558.8	1560.7	1566.8	1572.1	1574.8	1569.8
37.5°	1628.8	1624.6	1629.6	1631.1	1634.5	1635.6	1641.0	1648.6	1654.3	1653.6	1650.2
40°	1742.2	1741.5	1739.6	1737.2	1742.6	1744.5	1744.5	1754.8	1763.9	1762.4	1762.0
42.5°	1874.6	1871.2	1869.0	1868.9	1872.0	1872.8	1884.6	1892.2	1898.6	1900.1	1898.6
45°	2017.0	2013.6	2014.3	2012.8	2013.9	2018.9	2025.7	2039.8	2052.0	2052.4	2045.9
47.5°	2170.0	2159.3	2167.7	2155.9	2163.1	2166.9	2184.0	2204.6	2225.9	2229.7	2224.0
50°	2325.2	2324.1	2323.4	2321.0	2324.5	2332.8	2353.8	2386.1	2406.7	2420.4	2411.2
52.5°	2495.0	2489.3	2486.6	2482.8	2486.2	2502.6	2531.9	2560.0	2597.0	2612.6	2600.0
55°	2660.1	2658.2	2648.3	2648.0	2655.2	2680.7	2712.6	2747.3	2787.2	2804.7	2800.2
57.5°	2829.8	2818.8	2815.8	2811.2	2825.7	2849.6	2888.8	2951.3	2992.7	3012.6	3001.1
60°	2995.8	2987.4	2981.0	2979.4	2989.3	3022.8	3079.2	3154.1	3205.5	3231.4	3213.1
62.5°	3173.9	3168.6	3161.0	3152.2	3173.2	3216.1	3286.2	3369.1	3444.8	3476.8	3449.0
65°	3395.4	3384.3	3376.0	3364.9	3382.0	3436.1	3524.0	3640.8	3742.5	3779.7	3760.0
67.5°	3629.0	3618.8	3619.6	3612.7	3643.2	3718.1	3831.5	3990.2	4126.4	4190.0	4152.7
70°	3833.0	3838.7	3840.2	3868.0	3920.6	4034.7	4223.5	4472.0	4678.7	4775.6	4735.7
71°	3772.9	3785.4	3804.9	3833.8	3924.4	4059.4	4317.1	4618.2	4864.8	5029.2	4974.0
72.5°	3602.4	3610.0	3619.9	3664.0	3766.4	3945.3	4210.6	4554.6	4871.6	5084.3	5020.4
75°	3355.8	3363.0	3366.5	3397.3	3490.5	3646.6	3889.4	4194.6	4474.3	4655.4	4637.6
77.5°	2983.6	2984.7	3011.4	3059.0	3163.6	3342.1	3597.8	3914.4	4177.4	4318.2	4228.8
80°	2142.6	2128.1	2155.5	2216.8	2346.2	2550.9	2812.8	3174.3	3466.2	3597.8	3459.3
82.5°	815.1	859.3	929.0	1030.2	1074.0	1301.5	1545.8	1758.2	2004.0	2278.8	2209.9
85°	87.6	98.6	123.7	153.4	193.7	267.9	370.3	505.4	622.9	732.2	650.0
87.5°	32.8	33.5	37.3	43.0	43.8	45.7	48.7	56.7	52.9	45.6	36.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1376.1	1376.1	1376.1	1376.1	1376.1	1376.1	1376.1	1376.1
2.5°	1376.1	1376.5	1376.1	1376.5	1376.5	1375.0	1375.3	1374.6
5°	1375.8	1374.6	1375.0	1375.4	1375.0	1375.7	1374.6	1375.4
7.5°	1373.8	1371.6	1372.3	1372.3	1371.6	1372.7	1372.0	1371.6
10°	1370.0	1367.0	1368.5	1367.7	1367.4	1367.8	1367.7	1367.8
12.5°	1366.6	1364.7	1365.1	1364.7	1364.3	1365.4	1365.1	1365.4
15°	1365.8	1362.8	1362.4	1361.6	1362.0	1362.8	1362.8	1363.9
17.5°	1365.1	1361.2	1360.9	1360.1	1360.5	1362.0	1362.4	1361.6
20°	1367.4	1364.3	1363.6	1362.8	1362.4	1364.3	1363.9	1363.9
22.5°	1378.0	1374.2	1373.8	1370.8	1369.6	1370.8	1370.0	1370.0
25°	1395.1	1390.6	1389.1	1384.9	1381.8	1381.8	1380.7	1379.9
27.5°	1426.0	1419.1	1417.6	1414.2	1410.0	1410.8	1408.4	1408.1
30°	1461.7	1455.6	1450.3	1445.4	1440.4	1438.5	1435.8	1435.5
32.5°	1508.6	1501.7	1495.2	1489.1	1482.3	1479.6	1475.1	1472.8
35°	1566.0	1556.9	1549.3	1545.1	1538.2	1534.8	1531.8	1535.2
37.5°	1646.3	1635.3	1631.5	1626.6	1622.0	1616.6	1617.8	1616.6
40°	1757.4	1747.5	1743.7	1735.0	1733.8	1727.8	1731.6	1727.8
42.5°	1894.8	1876.5	1873.9	1867.0	1864.8	1861.4	1862.8	1860.2
45°	2044.4	2028.0	2025.0	2014.0	2014.3	2006.3	2009.4	2009.4
47.5°	2212.6	2195.5	2181.4	2173.4	2170.3	2165.4	2168.1	2167.7
50°	2386.1	2362.9	2347.3	2331.7	2324.8	2326.8	2321.4	2330.6
52.5°	2572.6	2538.0	2515.9	2501.1	2488.2	2490.8	2491.6	2494.2
55°	2765.6	2721.4	2689.4	2670.0	2658.2	2659.0	2662.4	2665.4
57.5°	2959.6	2904.5	2861.1	2832.1	2824.5	2828.0	2828.0	2827.6
60°	3161.0	3094.7	3038.8	3006.0	2999.2	2997.3	3012.2	3007.2
62.5°	3377.2	3297.6	3239.7	3197.9	3188.0	3194.8	3208.2	3205.1
65°	3663.7	3553.7	3479.1	3437.6	3420.9	3427.7	3445.6	3444.8
67.5°	4033.2	3879.5	3780.9	3727.6	3715.4	3723.8	3733.7	3743.2
70°	4585.8	4366.2	4225.4	4110.1	4060.6	4051.1	4061.0	4061.4
71°	4780.3	4528.0	4303.8	4163.0	4081.9	4047.7	4050.3	4033.2
72.5°	4772.3	4461.3	4199.1	4051.8	3939.2	3911.8	3898.5	3877.9
75°	4450.7	4170.6	3943.0	3782.4	3674.0	3641.6	3618.0	3616.8
77.5°	4036.2	3829.6	3578.8	3408.7	3276.6	3223.0	3199.0	3198.2
80°	3244.7	2935.3	2751.8	2649.5	2490.0	2444.0	2395.3	2377.0
82.5°	1962.2	1533.3	1246.7	1107.8	1031.0	849.0	761.9	720.8
85°	457.1	324.6	223.8	146.9	105.8	84.1	64.7	57.1
87.5°	30.8	24.3	21.7	17.5	13.3	12.9	8.0	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)